

# The Future of UAS

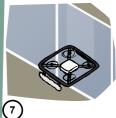
A look into how Unmanned Aerial Systems (UAS) could provide significant benefit through a wide range of applications.

## Agriculture / Crop spreading



Autonomous UAS capable of following pre-determined path.

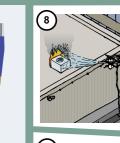
Examples: Dispersing monitoring crops, and agricultural vehicles, measuring topology.



### **Remote cleaning**

Using UAS to clean areas which would require specialist equipment to access.

Examples: Window cleaning on tall buildings, cleaning boats, large vehicles.



# Firefighting

Targeted firefighting with rapid response for areas difficult to access with traditional firefiahtina equipment



#### Construction

Use of swarm of UAS to assemble structures autonomously

Example: Autonomously constructing scaffolding

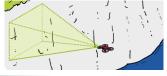


Remote inspection and condition monitoring of assets.

Examples: Wind turbine condition monitoring, solar panel inspection · through visual inspection and / or specialised thermal imaging or acoustic sensors.



assess rate of erosion / risk of collapse







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Multiple UAS working together autonomously to complete tasks - with greater payload capacity, or wider coverage

Examples: Transporting packages, surveying large areas.

#### Extending distance Use of other transport systems to reduce the ower requirement and

extend range of UAS. Examples: On train to travel long distances then facilitate 'last mile'

delivery by UAS.

**FRAZER-NASH** 

CONSULTANCY

